



*Quality Control Summary*

Method: JCB 2009      RunID: 180322eq08      Units: %      Analysis Date: 3/23/2018

**Laboratory Controls**

LSe1L180005P36	Recovery	Limit%	Notes
d-9-THC	86%	70-130	
THCA	111%	70-130	

**Duplicates**

SD18000845	Result mg/g	Original	RPD	Limit	Notes
CBDA	<LOQ	<LOQ	0	≤ 20	
CBDV	<LOQ	<LOQ	0	≤ 20	
CBDVA	<LOQ	<LOQ	0	≤ 20	
CBG	7.16	7.18	0	≤ 20	
CBN	<LOQ	<LOQ	0	≤ 20	
d-8-THC	<LOQ	<LOQ	0	≤ 20	
d-9-THC	119	120	0	≤ 20	
THCA	849	848	0	≤ 20	
THCV	<LOQ	<LOQ	0	≤ 20	
CBC	<LOQ	<LOQ	0	≤ 20	
CBD	<LOQ	<LOQ	0	≤ 20	

**Method Blanks**

MBeL180005P36	Result	Limit	Notes
CBC	<LOQ	0.17	
CBD	<LOQ	0.17	
CBDA	<LOQ	0.17	
CBDV	<LOQ	0.17	
CBDVA	<LOQ	0.17	
CBG	<LOQ	0.17	
CBN	<LOQ	0.17	
d-8-THC	<LOQ	0.68	
d-9-THC	<LOQ	0.17	
THCA	<LOQ	0.17	
THCV	<LOQ	0.17	

## Authorization

**Report Issued By**

Julie Austin  
Communications Coordinator

This report is intended to comply with Current Oregon Administrative Rules: Chapter 333 Division 7; Chapter 333 Division 8; Chapter 333 Division 64. These methods are accredited by ORELAP, unless otherwise noted.

The results contained in this report apply only to the items tested, and are for the exclusive use of the above named person or entity. Requests for information regarding these results must be referred to that person or entity. This report must not be reproduced, except in full, without the written approval of Cascadia Labs.

### Notes Glossary

Flag	Full Note
B1	Analyte in blank, not samples.
B2	Sample more than 5x blank.
B3	Sample less than 5x blank.
C1	QC result high, non-detects reported.
C2	QC outside limits, data estimate reported.
C3	QC outside limits, data acceptable based on additional QC.
C4	Spike result above calibration.
C5	Estimated, concentration above the calibration curve.
C6	Estimated, concentration below the LOQ.
C7	LOQ raised due to limited sample and/or dilution.
C8	LOQ raised due to matrix interferences.
LOQ	Limit of Quantification
M1	Matrix effecting spike recovery.
M2	Sample contains more than 4x spike.
M3	Non-homogenous sample matrix effecting RPD and/or %Recovery.
N	See case narrative.
N1	This Analyte is Not ORELAP Accredited
O	Not ORELAP accredited.
P1	RPD outside limits.
P2	RPD non-calculable, result less than 5x LOQ.
P3	RPD non-calculable, one result out of range
T	Tentatively Identified Compound (TIC) by library search.



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 ORELAP ID: 4077

**Sublime Solutions, LLC**

500 S. Danebo Ave.

Eugene, OR 97402

**Sample Name**  
**Batch #**  
**Original Batch #**

Distillate  
 1A401030000697B000002753  
 1A401030000697B000002731

**Report Date**  
**Sampled Date**  
**Receipt Date**  
**Receipt Condition**  
**Sample Type**  
**Sample ID**  
**Report Number**

3/28/2018  
 3/21/2018 1:14  
 3/21/2018  
 12.0 °C  
 Extract  
 18000857  
 C003965

Residual Solvents by USP 467 GCMS Units:PPM Prep: 03/27/2018 RunIDs: 180323eq05,180323eq75

Analyte	ppm	LOQ	Action	Status	Notes	Analyte	ppm	LOQ	Action	Status	Notes
1,4-Dioxane	<LOQ	94	380	Pass	< LOQ	Methanol	<LOQ	680	3000	Pass	< LOQ
2,2-Dimethylbutane	<LOQ	55	290	Pass	< LOQ	n-Butane	<LOQ	390	5000	Pass	< LOQ
2,3-Dimethylbutane	<LOQ	120	290	Pass	< LOQ	Neopentane	<LOQ	390	5000	Pass	< LOQ
2-Butanol	<LOQ	1200	5000	Pass	< LOQ	n-Hexane	<LOQ	56	290	Pass	< LOQ
2-Ethoxyethanol	<LOQ	60	160	Pass	< LOQ	n-Pentane	<LOQ	1100	5000	Pass	< LOQ
2-Methylbutane	<LOQ	1100	5000	Pass	< LOQ	o-Xylene	<LOQ	500	2170	Pass	< LOQ
2-Propanol	<LOQ	1200	5000	Pass	< LOQ	Pentanes	<LOQ	3900	5000	Pass	< LOQ
3-Methylpentane	<LOQ	59	290	Pass	< LOQ	Propane	<LOQ	160	5000	Pass	< LOQ
Acetone	<LOQ	1100	5000	Pass	< LOQ	Tetrahydrofuran	<LOQ	160	720	Pass	< LOQ
Acetonitrile	<LOQ	73	410	Pass	< LOQ	Toluene	<LOQ	170	890	Pass	< LOQ
Benzene	<LOQ	1	2	Pass	< LOQ	Xylenes	<LOQ	1500	2170	Pass	< LOQ
Butanes	<LOQ	790	5000	Pass	< LOQ						
Cumene	<LOQ	34	70	Pass	< LOQ						
Cyclohexane	<LOQ	890	3880	Pass	< LOQ						
Dichloromethane	<LOQ	120	5000	Pass	< LOQ						
Ethanol	<LOQ	1200	5000	Pass	< LOQ						
Ethyl Acetate	<LOQ	1100	5000	Pass	< LOQ						
Ethyl Ether	<LOQ	1100	5000	Pass	< LOQ						
Ethylbenzene	<LOQ	520	2170	Pass	< LOQ						
Ethylene Glycol	<LOQ	280	620	Pass							
Ethylene Oxide	<LOQ	47	50	Pass	< LOQ						
Heptane	<LOQ	900	5000	Pass	< LOQ						
Hexanes	<LOQ	290	290	Pass	< LOQ						
Isobutane	<LOQ	390	5000	Pass	< LOQ						
Isopropyl Acetate	<LOQ	1200	5000	Pass	< LOQ						
m,p-Xylene	<LOQ	1000	2170	Pass	< LOQ						

## *Comments*

Tentatively Identified Compounds (TICs) not found.

A Control Study is in place.  
This sample is the PRIMARY sample.

Analysis on 3/27/2018 under RunID 180323eq05.  
Analysis on 3/27/2018 under RunID 180323eq75.

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Julie Austin  
Communications Coordinator

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accredited by ORELAP.

*Quality Control Summary*

**Laboratory Controls**

<b>LSe1L170036P38</b>	<b>Recovery%</b>	<b>Limit%</b>	<b>Run ID</b>	<b>Notes</b>	<b>LSe1L170036P38</b>	<b>Recovery%</b>	<b>Limit%</b>	<b>Run ID</b>	<b>Notes</b>
1,4-Dioxane	96	50-150	180323eq05		2,2-Dimethylbutane	93	50-150	180323eq05	
2,3-Dimethylbutane	94	50-150	180323eq05		2-Butanol	98	50-150	180323eq05	
2-Ethoxyethanol	94	50-150	180323eq05		2-Methylbutane	92	50-150	180323eq05	
2-Propanol	97	50-150	180323eq05		3-Methylpentane	94	50-150	180323eq05	
Acetone	96	50-150	180323eq05		Acetonitrile	96	50-150	180323eq05	
Benzene	97	50-150	180323eq05		Cumene	95	50-150	180323eq05	
Cyclohexane	96	50-150	180323eq05		Dichloromethane	96	50-150	180323eq05	
Ethanol	96	50-150	180323eq05		Ethyl Acetate	96	50-150	180323eq05	
Ethyl Ether	94	50-150	180323eq05		Ethylbenzene	97	50-150	180323eq05	
Ethylene Glycol	90	50-150	180323eq75		Heptane	96	50-150	180323eq05	
Isopropyl Acetate	97	50-150	180323eq05		m,p-Xylene	97	50-150	180323eq05	
Methanol	97	50-150	180323eq05		n-Hexane	94	50-150	180323eq05	
n-Pentane	92	50-150	180323eq05		o-Xylene	97	50-150	180323eq05	
Tetrahydrofuran	99	50-150	180323eq05		Toluene	97	50-150	180323eq05	

**Matrix Spikes**

<b>MS18000845</b>	<b>Recovery%</b>	<b>Limits%</b>	<b>RunID</b>	<b>Notes</b>	<b>MS18000845</b>	<b>Recovery%</b>	<b>Limits%</b>	<b>RunID</b>	<b>Notes</b>
1,4-Dioxane	96	50-150	180323eq05		2,2-Dimethylbutane	97	50-150	180323eq05	
2,3-Dimethylbutane	98	50-150	180323eq05		2-Butanol	97	50-150	180323eq05	
2-Ethoxyethanol	101	50-150	180323eq05		2-Methylbutane	98	50-150	180323eq05	
2-Propanol	97	50-150	180323eq05		3-Methylpentane	97	50-150	180323eq05	
Acetone	98	50-150	180323eq05		Acetonitrile	99	50-150	180323eq05	
Benzene	96	50-150	180323eq05		Cumene	113	50-150	180323eq05	
Cyclohexane	97	50-150	180323eq05		Dichloromethane	98	50-150	180323eq05	
Ethanol	95	50-150	180323eq05		Ethyl Acetate	115	50-150	180323eq05	
Ethyl Ether	97	50-150	180323eq05		Ethylbenzene	98	50-150	180323eq05	
Ethylene Glycol	71	50-150	180323eq75		Heptane	98	50-150	180323eq05	
Isopropyl Acetate	99	50-150	180323eq05		m,p-Xylene	98	50-150	180323eq05	
Methanol	96	50-150	180323eq05		n-Hexane	98	50-150	180323eq05	
o-Xylene	98	50-150	180323eq05		Tetrahydrofuran	98	50-150	180323eq05	
Toluene	98	50-150	180323eq05						

**Duplicates**

SD18000845	Result mg/kg	Original	RPD	Limit	Notes	SD18000845	Result mg/kg	Original	RPD	Limit	Notes
Ethylene Glycol	<LOQ	<LOQ	0	≤ 20		1,4-Dioxane	<LOQ	<LOQ	0	≤ 20	< LOQ
2,2-Dimethylbutan	<LOQ	<LOQ	0	≤ 20	< LOQ	2,3-Dimethylbutan	<LOQ	<LOQ	0	≤ 20	< LOQ
2-Butanol	<LOQ	<LOQ	0	≤ 20	< LOQ	2-Ethoxyethanol	<LOQ	<LOQ	0	≤ 20	< LOQ
2-Methylbutane	<LOQ	<LOQ	0	≤ 20	< LOQ	2-Propanol	<LOQ	<LOQ	0	≤ 20	< LOQ
3-Methylpentane	<LOQ	<LOQ	0	≤ 20	< LOQ	Acetone	<LOQ	<LOQ	0	≤ 20	< LOQ
Acetonitrile	<LOQ	<LOQ	0	≤ 20	< LOQ	Benzene	<LOQ	<LOQ	0	≤ 20	< LOQ
Butanes	<LOQ	<LOQ	0	≤ 20	< LOQ	Cumene	<LOQ	<LOQ	0	≤ 20	< LOQ
Cyclohexane	<LOQ	<LOQ	0	≤ 20	< LOQ	Dichloromethane	<LOQ	<LOQ	0	≤ 20	< LOQ
Ethanol	<LOQ	<LOQ	0	≤ 20	< LOQ	Ethyl Acetate	<LOQ	<LOQ	0	≤ 20	< LOQ
Ethyl Ether	<LOQ	<LOQ	0	≤ 20	< LOQ	Ethylbenzene	<LOQ	<LOQ	0	≤ 20	< LOQ
Ethylene Oxide	<LOQ	<LOQ	0	≤ 20	< LOQ	Heptane	<LOQ	<LOQ	0	≤ 20	< LOQ
Hexanes	<LOQ	<LOQ	0	≤ 20	< LOQ	Isobutane	<LOQ	<LOQ	0	≤ 20	< LOQ
Isopropyl Acetate	<LOQ	<LOQ	0	≤ 20	< LOQ	m,p-Xylene	<LOQ	<LOQ	0	≤ 20	< LOQ
Methanol	<LOQ	<LOQ	0	≤ 20	< LOQ	n-Butane	<LOQ	<LOQ	0	≤ 20	< LOQ
Neopentane	<LOQ	<LOQ	0	≤ 20	< LOQ	n-Hexane	<LOQ	<LOQ	0	≤ 20	< LOQ
n-Pentane	1450	1570	9	≤ 20	< LOQ	o-Xylene	<LOQ	<LOQ	0	≤ 20	< LOQ
Pentanes	<LOQ	<LOQ	0	≤ 20	< LOQ	Propane	<LOQ	<LOQ	0	≤ 20	< LOQ
Tetrahydrofuran	<LOQ	<LOQ	0	≤ 20	< LOQ	Toluene	<LOQ	<LOQ	0	≤ 20	< LOQ
Xylenes	<LOQ	<LOQ	0	≤ 20	< LOQ						

**Method Blanks** Units = mg/kg

MBeL170036P38	Result	Limit	RunID	Notes	MBeL170036P38	Result	Limit	RunID	Notes
1,4-Dioxane	<LOQ	92	180323eq05		2,2-Dimethylbutane	<LOQ	54	180323eq05	
2,3-Dimethylbutane	<LOQ	120	180323eq05		2-Butanol	<LOQ	1200	180323eq05	
2-Ethoxyethanol	<LOQ	58	180323eq05		2-Methylbutane	<LOQ	1100	180323eq05	
2-Propanol	<LOQ	1100	180323eq05		3-Methylpentane	<LOQ	58	180323eq05	
Acetone	<LOQ	1100	180323eq05		Acetonitrile	<LOQ	71	180323eq05	
Benzene	<LOQ	1	180323eq05		Cumene	<LOQ	34	180323eq05	
Cyclohexane	<LOQ	870	180323eq05		Dichloromethane	<LOQ	120	180323eq05	
Ethanol	<LOQ	1100	180323eq05		Ethyl Acetate	<LOQ	1100	180323eq05	
Ethyl Ether	<LOQ	1100	180323eq05		Ethylbenzene	<LOQ	500	180323eq05	
Ethylene Glycol	<LOQ	290	180323eq75		Ethylene Oxide	<LOQ	46	180323eq05	
Heptane	<LOQ	880	180323eq05		Isobutane	<LOQ	380	180323eq05	
Isopropyl Acetate	<LOQ	1100	180323eq05		m,p-Xylene	<LOQ	990	180323eq05	
Methanol	<LOQ	670	180323eq05		n-Butane	<LOQ	380	180323eq05	
n-Hexane	<LOQ	55	180323eq05		n-Pentane	<LOQ	1100	180323eq05	
Neopentane	<LOQ	380	180323eq05		o-Xylene	<LOQ	490	180323eq05	
Propane	<LOQ	150	180323eq05		Tetrahydrofuran	<LOQ	160	180323eq05	
Toluene	<LOQ	170	180323eq05						

## Notes Glossary

Flag	Full Note
*	2,3-dimethylbutane = 2,3-dimethylbutane + 2-methylpentane
B1	Analyte in blank, not samples.
B2	Sample more than 5x blank.
B3	Sample less than 5x blank.
C1	QC result high, non-detects reported.
C2	QC outside limits, data estimate reported.
C3	QC outside limits, data acceptable based on additional QC.
C4	Spike result above calibration.
C5	Estimated, concentration above the calibration curve.
C6	Estimated, concentration below the LOQ.
C7	LOQ raised due to limited sample and/or dilution.
C8	LOQ raised due to matrix interferences.
L1	The LOQs of the compounds in 'Hexanes' are each below the action level.
LOQ	Limit of Quantification
M1	Matrix effecting spike recovery.
M2	Sample contains more than 4x spike.
M3	Non-homogenous sample matrix effecting RPD and/or %Recovery.
N	See case narrative.
N1	This Analyte is Not ORELAP Accredited
O	Not ORELAP accredited.
P1	RPD outside limits.
P2	RPD non-calculable, result less than 5x LOQ.
P3	RPD non-calculable, one result out of range
T	Tentatively Identified Compound (TIC) by library search.